



Fording Flood Waters: Past Weather and What's Ahead for Northeast Wisconsin and the Region

Jeff Last

NOAA National Weather Service

www.weather.gov/grb



The focus of this briefing will be on the above average precipitation over the last two years, impacts on Lake Michigan and area rivers, and an outlook on what's ahead.

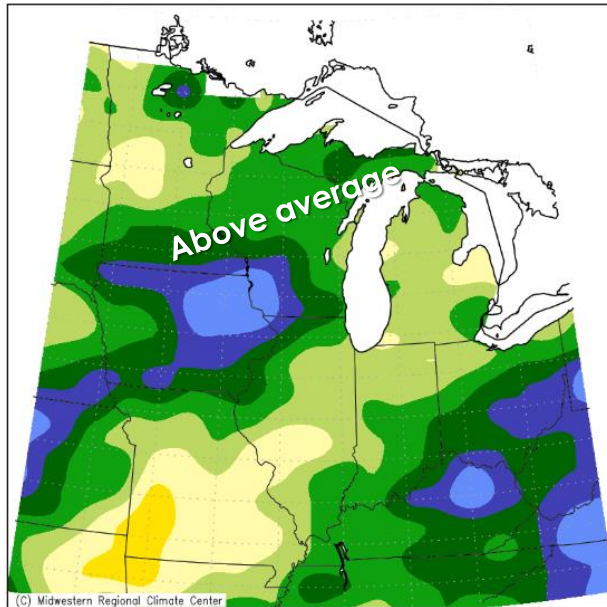


Past Weather



Accumulated Precipitation: Percent of Mean

September 1, 2018 to November 30, 2018



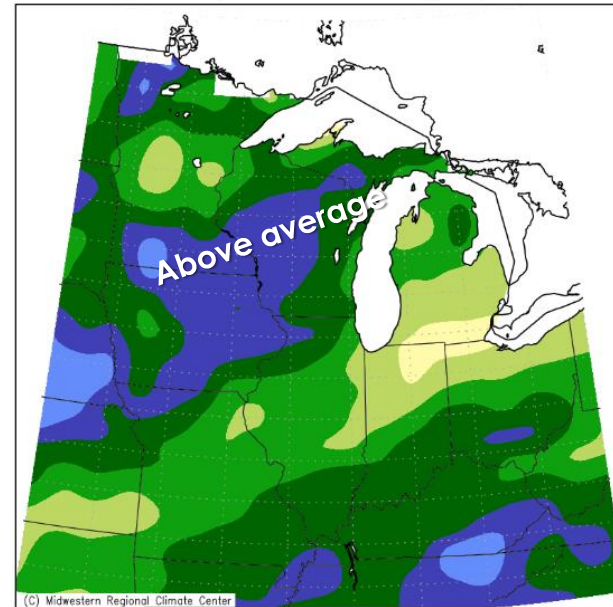
Mean period is 1981–2010.



Midwestern Regional Climate Center
Illinois State Water Survey, Prairie Research Institute
University of Illinois at Urbana–Champaign

Fall 2018

December 1, 2018 to February 28, 2019



Mean period is 1981–2010.



Midwestern Regional Climate Center
Illinois State Water Survey, Prairie Research Institute
University of Illinois at Urbana–Champaign

Winter 2018-19

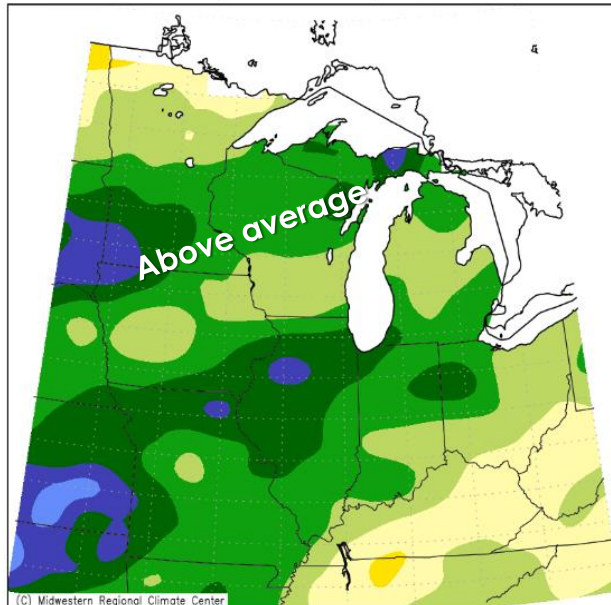


Past Weather



Accumulated Precipitation: Percent of Mean

March 1, 2019 to May 31, 2019



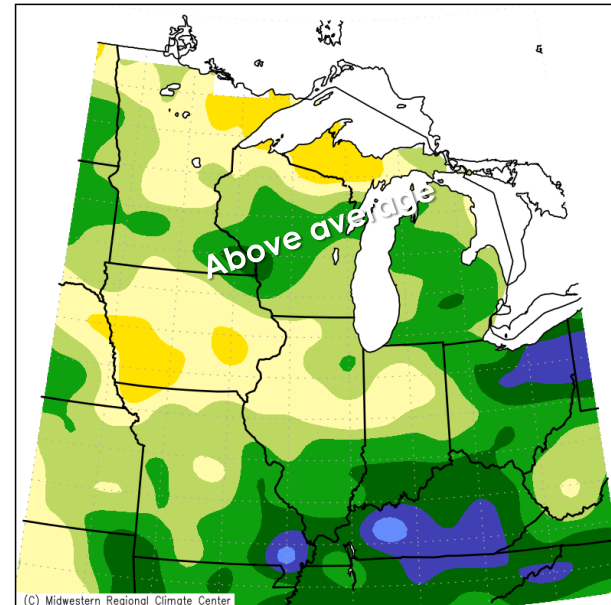
Mean period is 1981–2010.



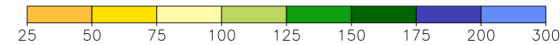
Midwestern Regional Climate Center
Illinois State Water Survey, Prairie Research Institute
University of Illinois at Urbana-Champaign

Spring 2019

June 1, 2019 to July 24, 2019



Mean period is 1981–2010.



Midwestern Regional Climate Center
cli-MATE: MRCC Application Tools Environment
Generated at: 7/25/2019 8:43:27 AM CDT

Summer 2019

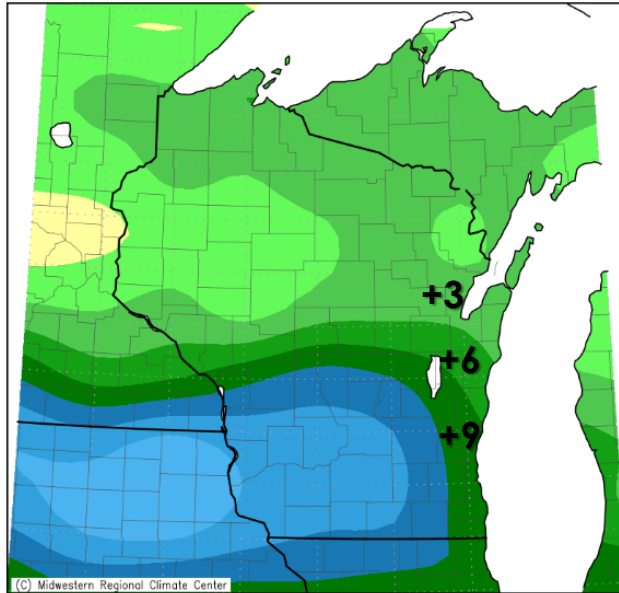


Past Weather



Accumulated Precipitation (inches): Departure from Mean

January 1, 2018 to December 31, 2018



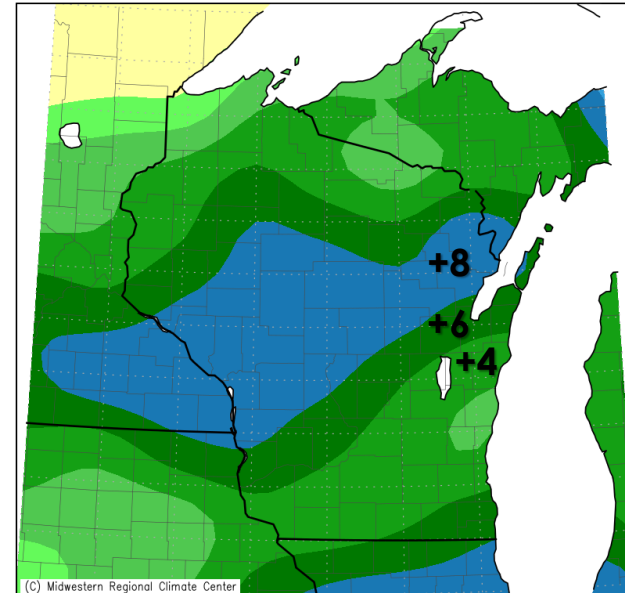
Mean period is 1981–2010.



Midwestern Regional Climate Center
cli-MATE: MRCC Application Tools Environment
Generated at: 6/25/2019 2:01:36 PM CDT

2018

January 1, 2019 to July 24, 2019



Mean period is 1981–2010.



Midwestern Regional Climate Center
cli-MATE: MRCC Application Tools Environment
Generated at: 7/25/2019 7:36:30 AM CDT

2019



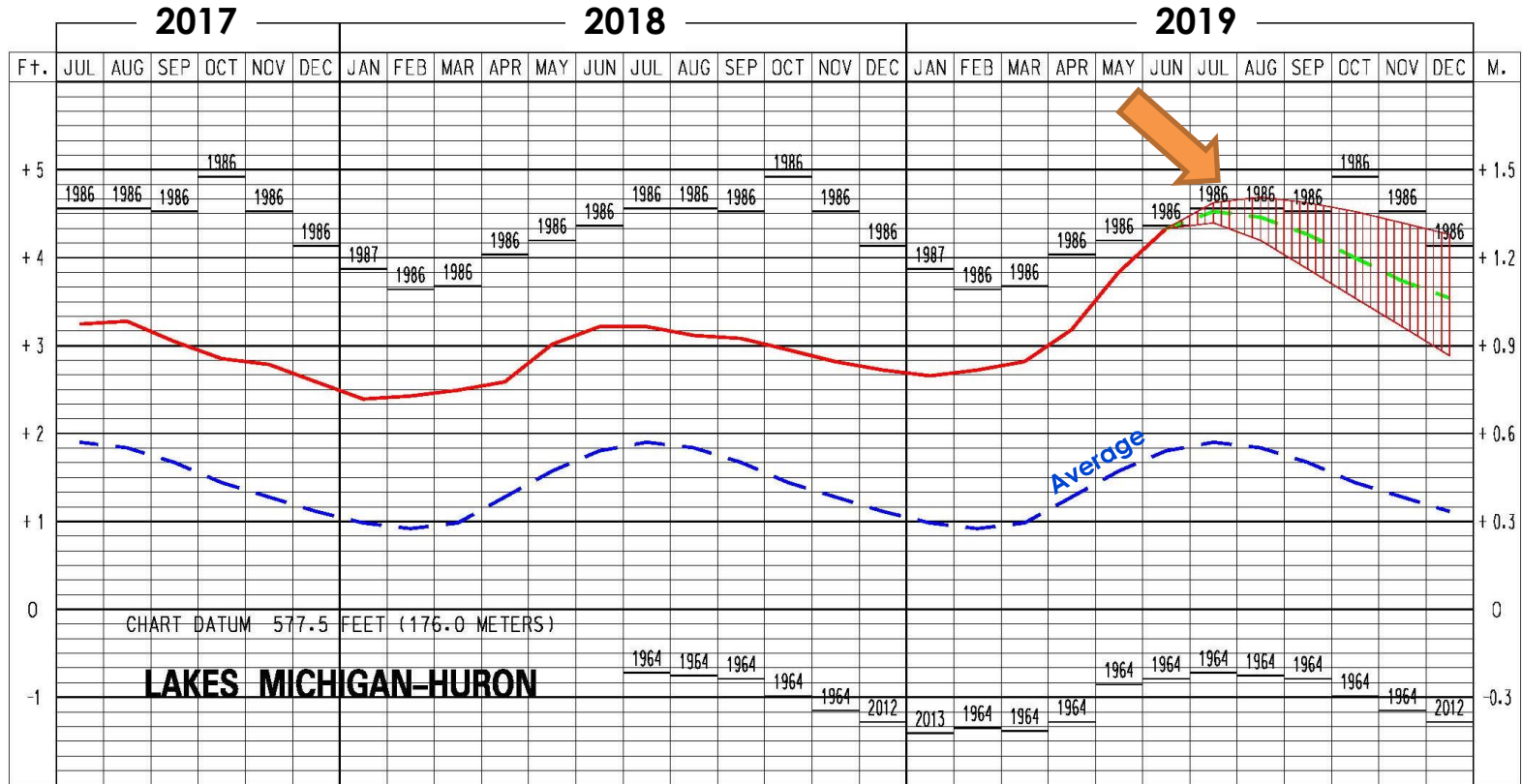
Impacts



Lake Michigan



LAKES MICHIGAN-HURON WATER LEVELS - JULY 2019



LEGEND

LAKE LEVELS

RECORDED

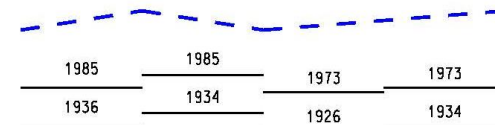
PROJECTED



AVERAGE **

MAXIMUM **

MINIMUM **



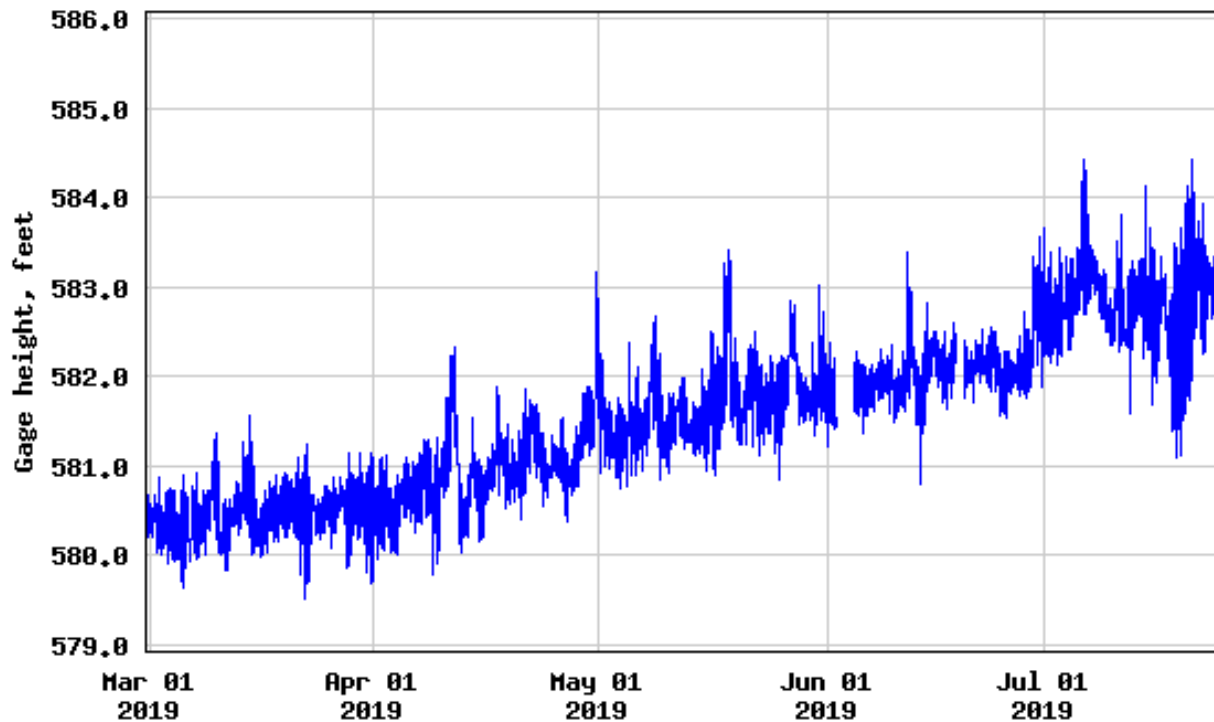
** Average, Maximum and Minimum for period 1918-2018



Mouth of Fox River



USGS 040851385 FOX RIVER AT OIL TANK DEPOT AT GREEN BAY, WI



---- Provisional Data Subject to Revision ----



East River (Brown County)

March 13-14, 2019



Greenleaf (Brown Co.)
Image: USGS



East River (Brown County)



USA Today Network-Wisconsin



USA Today Network-Wisconsin



WLUK-TV



Lake Michigan

Spring-Summer 2019



Algoma (Kewaunee Co.)
Photo: Peninsula Pulse



Kewaunee boat launch (Kewaunee Co.)
Photo: Peninsula Pulse



Ephraim (Door Co.)
Photo: Peninsula Pulse



Lake Michigan



Whitefish Dunes State Park (Door Co.)
Photo: USA Today Network-Wisconsin



Green Bay Shore



July 24, 2019



Suamico (Longtail Beach Lane)
Photos: Kim Messer



NWS Alerts



- **Flood Watch/Warning/Advisory**
 - Issued for rivers and/or low-lying areas when heavy rain is expected to create flooding
- **Lakeshore Flood Watch/Warning/Advisory**
 - Issued for lakeshore areas when persistent onshore winds create waves/flooding/erosion due to high lake levels



A Look Ahead

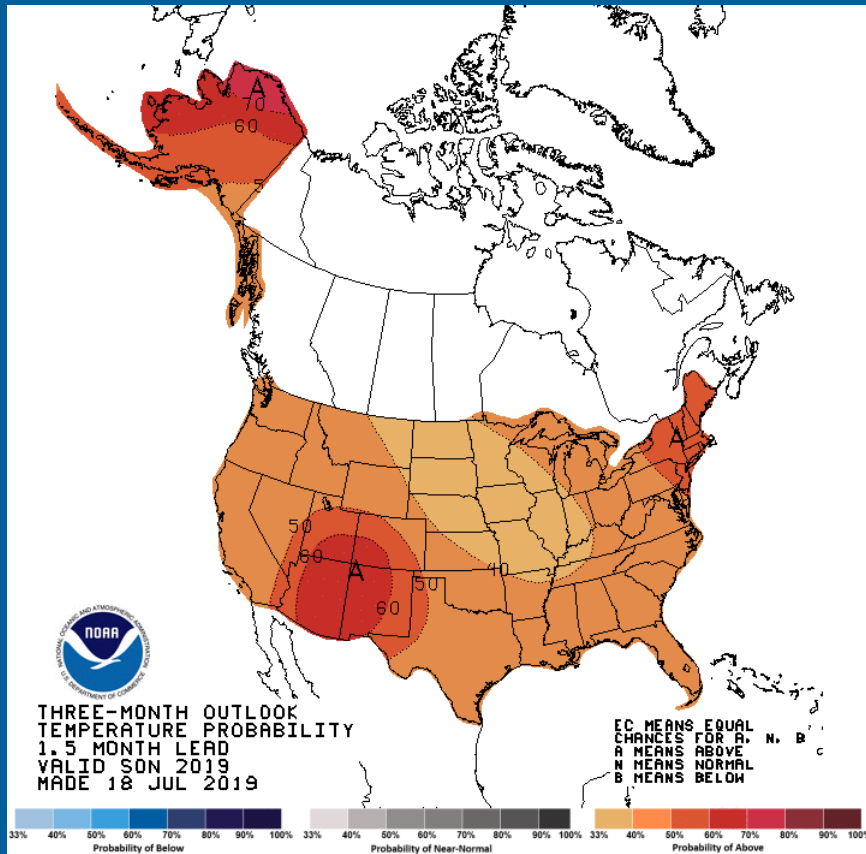


Autumn 2019

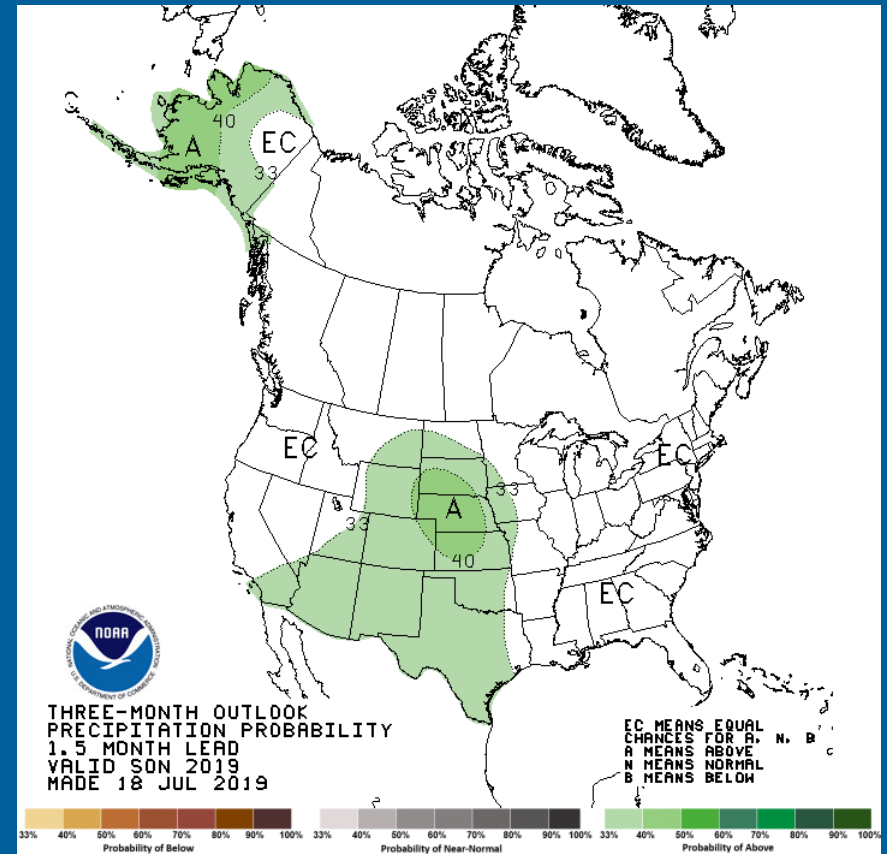
September-November



Temperature



Precipitation

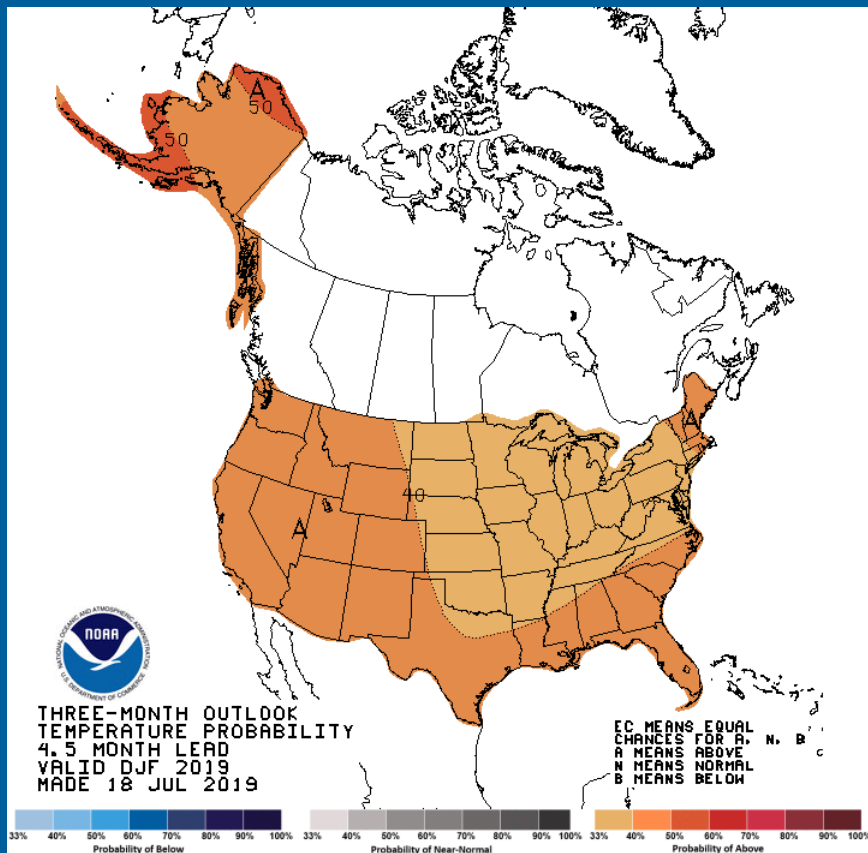




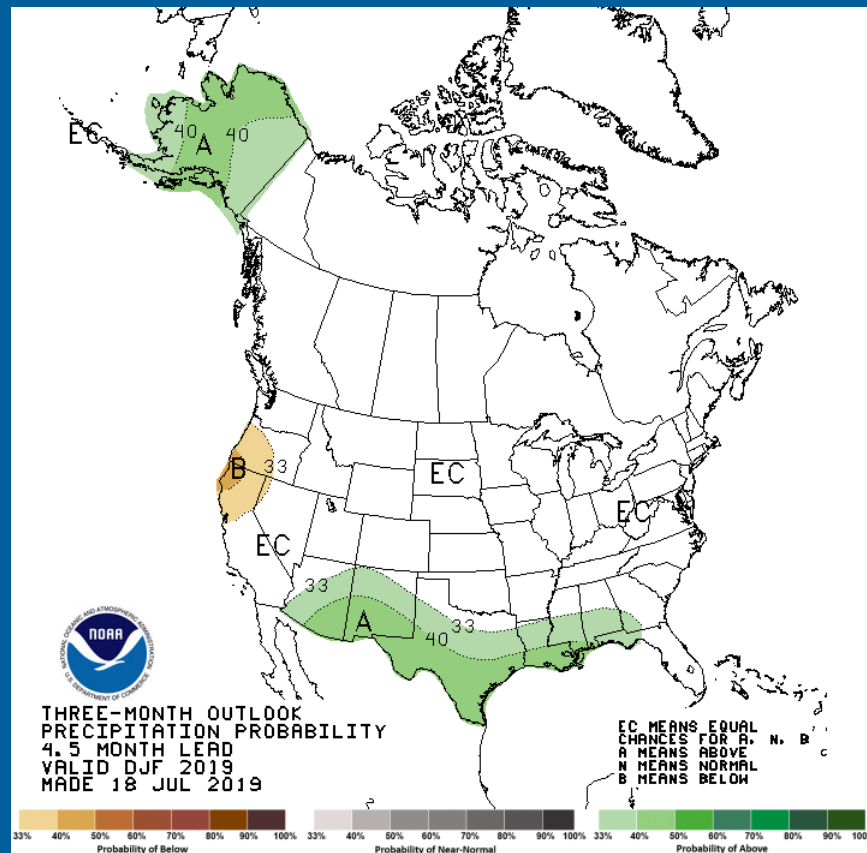
Winter 2019-2020

December-February

Temperature



Precipitation





Fording Flood Waters: Past Weather and What's Ahead for Northeast Wisconsin and the Region

Jeff Last

NOAA National Weather Service

www.weather.gov/grb

